

## **EQUIPMENT LIST**

**Need – Various Equipment Items for Eye Clinic Expansion**

**Market – Open Market**

**Brand Name Product(s) – See below**

*The following is a list of equipment items and draft characteristics. Government requirements are still being drafted and may change based on further market research and responses to this notice.*

### **1. FULL POWER ARTICULATING CHAIR**

Shall be equivalent to: RELIANCE 7000L FULL POWER CHAIR

#### **1.1. Required Characteristics:**

- 1.1.1. The chair must recline to a near flat position with adjustable surgical headrest.
- 1.1.2. Must have side controls with rotation locks for all positions of the chair.
- 1.1.3. The chair must have a finger panel switch to raise, lower or recline the chair, located on the side of the chair back.
- 1.1.4. Weight capacity of 500 pounds.
- 1.1.5. The chair shall have position memory settings to allow for one-button adjustment of seating position (at least three (3) memory positions).
- 1.1.6. Must have a safety switch capable of disabling the operation of all other switches.
- 1.1.7. Chair must have armrest locks.

### **2. STAND WITH CONSOLE WHEEL CHAIR**

Shall be equivalent to: RELIANCE 7800 IC STAND WITH CONSOLE WHEEL CHAIR

#### **2.1. Required Characteristics:**

- 2.1.1. Stand must have a counter balanced slit lamp arm with a locking mechanism.
- 2.1.2. The stand must have a 12 inch range of travel and able to counterbalance instruments weighing up to 60 lbs. and must have a switch to raise and lower arm.
- 2.1.3. The refractor arm must be able to lock with the phoropter arm.
- 2.1.4. Switches to turn chart projector on and off as well as to lower chair and raise with auto return.
- 2.1.5. Switches to control chart projector with raise/lower auto down functions of chair. Membrane switches to control intensity of the overhead lamp and indirect ophthalmoscope.
- 2.1.6. Must have an overhead lamp with adjustable arm.

### **3. PNEUMATIC STOOL, UPHOLSTERED**

Shall be equivalent to: RELIANCE RE5346 PNEUMATIC STOOL WITH BACK

#### **3.1. Required Characteristics:**

- 3.1.1. The stool must be pneumatic with a minimum seat diameter of 15 inches and a high density foam cushion.
- 3.1.2. The stool shall have a pneumatic assist to elevate the seat.

#### **4. CHAIR MOVER**

Shall be equivalent to: RELIANCE RPK1971 CHAIR MOVER

##### **4.1. Required Characteristics:**

- 4.1.1. The chair mover shall have a stainless steel base plate to guide the carriage and to prevent lateral movement.
- 4.1.2. The chair mover shall have an adjustable, mechanical stop to limit travel distance.

#### **5. SLIT LAMP, LED**

Shall be equivalent to: HAAG STREIT BQ900 LED UNIT MODEL

##### **5.1. Required Characteristics:**

- 5.1.1. The Lamp must specialize in anterior segment.
- 5.1.2. The Lamp shall have a standard magnification in 10x and 16x with a flip lever (*not a dial knob*) for changing magnification level.
- 5.1.3. Must have a video port to divert the images to a camera to see small prisms.
- 5.1.4. Must have yellow filter for contrast when using fluorescein.
- 5.1.5. Must have adjustable illumination control.
- 5.1.6. The slit lamp must be able to adjust from 0-14 mm also have UV and IR filters with blue, red and grey filters.

#### **6. APPLANATION TONOMETER**

Shall be equivalent to: HAAG STREIT HS09004.4 BQ APPLANATION TONOMETER

##### **6.1. Required Characteristics:**

- 6.1.1. The applanation tonometer must be able to adapt in a manner that allows for accurate readings, even if the patient is not fully fixated.
- 6.1.2. The tonometer must be able to mount onto the slit lamp.

#### **7. CYLINDER PHOROPTOR**

Shall be equivalent to: REICHERT RI11625B ULTRAMATIC MINUS CYLINDER PHOROPTOR

##### **7.1. Required Characteristics:**

- 7.1.1. The Phoroptor must have a (-) minus-type cylinder.
- 7.1.2. Must have sphere, cylinder power and cylinder axis scales with pin light alignment.

#### **8. PROJECTOR SYSTEM**

Shall be equivalent to: HAAG STREIT S3700 STIMULI ADVANACED PROJECTOR SYSTEM

##### **8.1. Required Characteristics:**

- 8.1.1. Must have automatic chart rotation with Snellen charts and including programmable chart selections (image charts; set of 25 standard).

## **9. INDIRECT OPHTHALMOSCOPE BINOCULAR, LED W/ WALL-MOUNTED CHARGER**

Shall be equivalent to: HEINE OMEGA 500 LED BINOCULAR INDIRECT OPHTHALMOSCOPE, UNPLUGGED W/ EN50 AND 1 BATTERY (MODEL NO. C-04.33-537L)

### **9.1. Required Characteristics:**

- 9.1.1. Must have rechargeable battery integrated on the headband.
- 9.1.2. Must have rechargeable battery
- 9.1.3. Charge status indicator
- 9.1.4. Direct operation possible while charging

## **10. REFRACTION DESK, RIGHT HANDED**

Shall be equivalent to: COW Industries, Inc. REFRACTION DESK II RIGHT HAND (MODEL NO. COCBWC16-002)

### **10.1. Required Characteristics:**

- 10.1.1. The refraction desk shall have the below room lighting interface kit installed into the desk.
- 10.1.2. The desk shall have an illuminated switch panel that includes the following functions. The desk control panel shall include switching for PIN lights, Autorefraction, Projector on/off switch, Room lighting on/off switch, Examination Chair on/off switch, Indirect Light Source on/off switch, and cradle hangers for the indirect light sources.
- 10.1.3. The desk shall accommodate both fluorescent and incandescent lighting.
- 10.1.4. The desk shall have 3.5v charging stations for all retinoscopes, PIN lights, and handles, ophthalmoscopes and transilluminators described elsewhere in this equipment list.

## **11. ROOM LIGHTING INTERFACE KIT**

Shall be equivalent to: COW Industries, Inc. INTERFACE KIT (MODEL NO. COCBWC20-005)

### **11.1. Required Characteristics:**

- 11.1.1. Lighting should be able to control from desk panel with illumination switches. See requirements for the Refraction Desk, above.

## **12. TRIAL LENS SET, FULL DIAMETER +&-**

Shall be equivalent to: REICHERT RI15015 TRIAL LENS SET FULL DIAMETER +&-

### **12.1. Required Characteristics:**

- 12.1.1. Full set of optical trial lens with metal rims.

## **13. TRIAL FRAME**

Shall be equivalent to: REICHERT RI15010 TF50 TRIAL FRAME

### **13.1. Required Characteristics:**

- 13.1.1. The trial frame shall be made of aluminum
- 13.1.2. The trial frame shall include axis controls and lens fitting adjustment controls.

#### **14. COAXIAL OPHTHALMOSCOPE, 3.5V**

Shall be equivalent to: WELCH ALLYN 3.5V COAXIAL OPHTHALMOSCOPE (MODEL NO. WA11720)

##### **14.1. Required Characteristics:**

- 14.1.1. Should be able to check corneal refraction
- 14.1.2. Must have 3.5 volt power sources
- 14.1.3. Must have aperture/filter combination for versatility
- 14.1.4. Must be capable to detect for corneal abrasions.

#### **15. RETINOSCOPE**

Shall be equivalent to: WELCH ALLYN ELITE RETINOSCOPE (MODEL NO. WA18245)

##### **15.1. Required Characteristics:**

- 15.1.1. Must have 2.8 brightness (illumination)
- 15.1.2. Glare elimination for trial lens
- 15.1.3. Must be capable to fit 3.5 volt power source.
- 15.1.4. Capable to detecting for astigmatism, myopia and hyperopia.

#### **16. TRANSILLUMINATOR**

Shall be equivalent to: WELCH ALLYN TRANSILLUMINATOR (MODEL NO. WA41100)

##### **16.1. Required Characteristics:**

- 16.1.1. Trans illuminator with a 3.5 v connector

#### **17. RECHARGEABLE HANDLE, 3.5V**

Shall be equivalent to: WELCH ALLYN 3.5V RECHARGEABLE HANDLE (MODEL NO. WA71670)

##### **17.1. Required Characteristics:**

- 17.1.1. Rechargeable handle with 3.5v connector

#### **18. AUTOMATED REFRACTIVE KERATOMETER**

Shall be equivalent to: TOPCON KR-800 AUTO REF-KERATOMETER (MODEL NO. 15094)

##### **18.1. Required Characteristics:**

- 18.1.1. Must be capable of keratometric and refractive measurements, with paper print out and computer connection.

#### **19. HANDHELD TONOMETER**

Shall be equivalent to: REICHERT ME23-0650 TONOPEN AVIA HANDHELD TONOMETER

##### **19.1. Required Characteristics:**

- 19.1.1. Must be capable of providing fast, accurate and reliable IOP measurements that are less sensitive to corneal centration.
- 19.1.2. The Handheld Tonometer shall have a durable build quality.

## **20. CORNEAL TOPOGRAPHY ANALYZER**

Shall be equivalent to: TOPCON CA-800 CORNEAL ANALYZER (MODEL NO. TEM1248005)

### **20.1. Required Characteristics:**

- 20.1.1. Curvature mapping a complete analysis of the cornea inclusive keratoconus probability index and height map of the corneal surface.
- 20.1.2. Provide fluorescein images.
- 20.1.3. Must be cable of measuring pupilometer, fluorescein and meibography
- 20.1.4. The analyzer shall be capable of calculating contact lens fitting
- 20.1.5. Must be capable of toric IOL calculation for cataract surgery.